

From Another Kingdom The Amazing World Of Fungi

FungiFungi for Human HealthMushrooms, Humans and Nature in a Changing WorldFrom Spores to SpreadingPlanet EarthThe World's Encyclopedia of Wonders and Curiosities of Nature and Art, Science and LiteratureWhat a Mushroom Lives ForThe World's Carriers and Carrying Trades' ReviewThe World's Encyclopedia of Wonders and CuriositiesThe Biotic World and ManThe Living WorldThe world's lumber room, a gossip about some of its contentsThe American NaturalistPopular Science Monthly and World's AdvanceTransactions and ProceedingsState of the World's FungiBioactive Compounds in Edible MushroomsCurrent LiteratureBiology--the Living WorldFungal Biotechnology *Lynne Boddy Uzma Azeem Jesús Pérez-Moreno Barrett Williams John Platts Michael J. Hathaway John Platts Lorus Johnson Milne George Brooks Johnson Selina Gaye Massachusetts Horticultural Society Sylvester Chibueze Izah Francis Day Curtis Song Yang*
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discover the fascinating stories behind some 300 species of fungi and understand the world of mushrooms like never before did you know that fungi put the fizz in champagne and the flavour in chocolate fungi is everywhere we look in a forest under the sea and in the kitchen in this beautiful book leading fungal biologists professor lynne boddy and dr ali ashby bring you closer to 300 species of mushrooms and lichens through fascinating facts mushroom datasets and detailed illustrations discover some of the fastest speeds in nature specimens that glow in the dark and fungi that clean up oil spills humans have had a close relationship with mushrooms for thousands of years bringing together technology medicine food culture and nature this fascinating book will open your eyes to the wonders of the hidden kingdom all around us

current research lays emphasis on exploring natural products for use in nutraceuticals and pharmaceuticals to overcome various side effects of synthetic drugs fungi occupy an eminent position among natural sources of food and medicinal importance since ancient times many fungal species have been eaten as food and used in folk medicine for the treatment of many human ailments as mentioned in traditional medical literature however scanty information is available pertaining to the nutraceutical and pharmaceutical importance of fungi which merits an extensive review this book spotlights the use value macrofungi in human health macrofungi with health benefitting properties largely belong to basidiomycota followed by ascomycota growing indoor cultivated and outdoor wild we endeavoured to throw light on the benefits of macrofungal taxa in relation to their food and medicinal significance in human life we provided knowledge pertaining to the ethnomyecological significance of macrofungi with respect to their uses as food and medicine by the people inhabiting different parts of the world this book highlights the nutritional composition and bioactive compounds present in macrofungi we also focused on the pharmacological activities of macrofungi contributing towards their medicinal value against several human disorders we cited many commercially available nutraceutical and pharmaceutical products of macrofungal origin this work will hopefully serve as a basic reference for general public mycologists researches and industry men interested in consumption research and marketing of macrofungi

this book focuses on recent advances in our understanding of wild edible mycorrhizal fungi truffle and mushrooms and their cultivation in addition to providing fresh insights into various topics e g taxonomy ecology cultivation and environmental impact it also demonstrates the clear but fragile link between wild edible mushrooms and human societies comprising 17 chapters written by 41 experts from 13 countries on four continents it enables readers to grasp the importance of protecting this unique invaluable renewable resource in the context of climate change and unprecedented biodiversity loss the book inspires professionals and encourages young researchers to enter this field to develop the sustainable use of wild edible mushrooms using modern tools and approaches it also highlights the importance of protecting forested environments saving species from extinction and generating a significant income for local populations while keeping alive and renewing the link between humans and wild edible mushrooms so that in the future the sustainable farming and use of edible mycorrhizal mushrooms will play a predominant role in the management and preservation of forested lands

enter the mystical realm of fungi with from spores to spreading an illuminating journey through one of nature's most enigmatic kingdoms this compelling ebook unveils the remarkable world of fungi exploring their vital roles in ecosystems their fascinating symbiotic relationships and their adaptive responses to the changing climate dive into the fundamental nature of fungi and discover the intricate mycelium networks hidden beneath our feet as climate change challenges the resilience of plant and animal life see how these silent yet powerful organisms are evolving in response explore the secrets of spore dispersion where fungi ingeniously navigate environmental forces to spread across the globe delve into symbiotic relationships

learning how fungi partner with other organisms to create resilient systems whether through forming crucial mycorrhizal networks or living in harmony with insects and lichens as you journey further uncover the significant threat fungal pathogens pose to agriculture and wildlife and examine innovative strategies for mitigation marvel at fungi's ability to thrive in extreme environments from arid deserts to the icy expanses of the arctic discover fungi's irreplaceable role in the carbon cycle and soil health acting as earth's natural recyclers learn about their applications in biotechnology from biofuel production to pharmaceuticals and environmental cleanup from spores to spreading also offers insights into fungal genomics illustrating how genetic plasticity fuels their biodiversity examine cultural and historical perspectives on fungi dispelling modern misconceptions finally explore the ethical dimensions of fungal research balancing preservation and scientific inquiry engage with the pressing challenges and opportunities facing fungi in a rapidly changing world and join a vibrant community dedicated to fungal conservation through citizen science and educational outreach this captivating ebook is your gateway to understanding fungi's profound impact on our planet and envisioning a future where their potential is fully realized embark on this extraordinary journey and be inspired by the promise and resilience of fungi

how the prized matsutake mushroom is remaking human communities in china and providing new ways to understand human and more than human worlds what a mushroom lives for pushes today's mushroom renaissance in compelling new directions for centuries western science has promoted a human and animal centric framework of what counts as action agency movement and behavior but as michael hathaway shows the world making capacities of mushrooms radically challenge this orthodoxy by revealing the lively dynamism of all forms of life the book tells the fascinating story of one particularly prized species the matsutake and the astonishing ways it is silently yet powerfully shaping worlds from the tibetan plateau to the mushrooms final destination in japan many tibetan and yi people have dedicated their lives to picking and selling this mushroom a delicacy that drives a multibillion dollar global trade network and that still grows only in the wild despite scientists intensive efforts to cultivate it in urban labs but this is far from a simple story of humans exploiting a passive edible commodity rather the book reveals the complex symbiotic ways that mushrooms plants humans and other animals interact it explores how the world looks to the mushrooms as well as to the people who have grown rich harvesting them a surprise filled journey into science and human culture this exciting and provocative book shows how fungi shape our planet and our lives in strange diverse and often unimaginable ways

includes list of members

this handbook offers a comprehensive perspective of edible mushrooms phytochemistry and explores the application of bioactive compounds from fungi in nutrition medicine and environmental sustainability the book starts with an overview of edible mushrooms bioactive compounds followed by 5 parts covering the diversity classification and taxonomy of common edible mushrooms their environmental roles sustainable harvesting practices

nutritional value and health benefits and characterization and quality control of bioactive compounds the book concludes with a perspective on emerging uses and trends in mushroom consumption utilization in this book readers will find valuable insights into the latest trends and developments in the field including how diverse edible mushroom species are used in culinary medicinal and ecological contexts particular attention is given to functional foods and the chemical composition of an extensive range of bioactive compounds in edible mushrooms such as beta glucans polysaccharides ergosterol phenolic compounds and triterpenoids the book also explores the environmental impact of mushroom cultivation and the economic opportunities arising from the increasing demand for edible mushrooms and their bioactive compounds techniques and strategies for preserving mushrooms detecting adulteration in the mushroom market characterizing bioactive compounds and ensuring quality control in production and distribution are thoroughly discussed this comprehensive overview serves as an invaluable resource for a wide range of professionals including researchers healthcare practitioners nutritionists food technologists and anyone interested in tapping into the potential of edible mushroom bioactive compounds for the improvement of health nutrition and sustainability

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Introduction

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